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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,173	03/10/2004	Christian Dachauer	004640-044	3507
21839	7590	11/03/2005	EXAMINER	
BUCHANAN INGERSOLL PC (INCLUDING BURNS, DOANE, SWECKER & MATHIS) POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			LU, JIPING	
			ART UNIT	PAPER NUMBER
			3749	

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/796,173	DACHAUER ET AL.	
	Examiner	Art Unit	
	Jiping Lu	3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 28 September 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-29 and 31-43 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 14 and 15 is/are allowed.
 6) Claim(s) 1-13, 16-29, 31-43 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-29 and 31-43 are pending. Claim 30 is canceled.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. Claims 1-13, 16-29, 31, 33-43 are rejected under 35 U.S.C. 103 as unpatentable over Petersen (U. S. Pat. 5,133,137) in view of Geissbuhler et al (DE 19500383 A1).

Petersen shows a fluidized bed continuous thermal treatment of granular bulk material same as the broad claims. Petersen's device includes a product inlet 12, 24, 25 in a first chamber 13, a product outlet 23 in the last chamber 14 downstream from the first chamber 13 and several fluidization chambers (at 14, 17, 55) with several gas permeable sieve bottom 16, 17. The gas 18, 19 is injected into respective chamber 13, 14, to fluidize the granulate and exited in a roof area 20 of the device. Adjacent chambers are separated by separating walls 15. For claim 6, see openings 22. For claim 10, see 22a. However, the device of Petersen does not show a zigzag separator forming a roof of the chambers. Geissbuhler et al. shows a zigzag separator 13 forming a roof of the chamber 1 between a surface of the fluidized layer and a fluidization gas vent 3 same as the applicant's. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the chambers of fluidized bed of Petersen with a zigzag separator roof as taught by Geissbuhler et al. in order to provide a serpentine path of granulate for better granulate separation and heat exchange. With regard to

the claimed the granulate size, chamber shape and type of bulk material, it would have been an obvious matter of design choice to design the choose the size of the granular particle and the shape of the chamber with any desired size and shape in order to obtain the optimum result since applicant has not disclosed that the claimed size and shape solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill in the art and it appears that the claimed feature does not distinguish the invention over similar features in the prior art . For claims 41-43, to use the device of Petersen for treating PET or polymer granulate is deemed to be an obvious matter of uses.

4. Claims 1-13, 16-29, 31, 33-43 are rejected under 35 U.S.C. 103 as unpatentable over Brassert et al. (U. S. Pat. 2,316,664) in view of Geissbuhler et al (DE 19500383 A1).

Brassert et al show a fluidized bed continuous thermal treatment of granular bulk material same as the broad claims. Brassert's device includes a product inlet 4 in a first chamber (between 132 and 102), a product outlet 72 in the last chamber (near 78) downstream from the first chamber and several fluidization chambers with several gas permeable sieve bottom. The gas 22 is injected into respective chambers to fluidize the granulate and exited in a roof area 60 of the device. Adjacent chambers are separated by separating walls 132. However, the device of Brassert et al does not show a zigzag separator. Geissbuhler et al. shows a zigzag separator 13 forming a roof of the chamber 1 between a surface of the fluidized layer and a fluidization gas vent 3 same as the applicant's. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the chambers of the fluidized bed of Brassert et al with a zigzag separator roof as taught by Geissbuhler et al. in order to provide a serpentine path of granulate for better granulate separation and heat exchange. With regard to

the claimed the granulate size, chamber shape and type of bulk material, it would have been an obvious matter of design choice to design the choose the size of the granular particle and the shape of the chamber with any desired size and shape in order to obtain the optimum result since applicant has not disclosed that the claimed size and shape solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill in the art and it appears that the claimed feature does not distinguish the invention over similar features in the prior art . For claims 41-43, to use the device of Brassert et al. for treating PET or polymer granulate is deemed to be an obvious matter of uses.

5. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Petersen (U. S. Pat. 5,133,137) or Brassert et al. (U. S. Pat. 2,316,664) in view of Geissbuhler et al (DE 19500383 A1) as applied to claim 1 as above, and further in view of Sanderson (U. S. Pat. 3,360,867).

The device of Petersen or Brassert et al. as modified by Geissbuhler et al. as above includes all that is recited in claim 32 except for the pivotable gate. Sanderson teaches a fluidized bed device with pivotable gate 40 same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further provide the device of Petersen or Brassert et al. with a pivotable gate as taught by Sanderson in order to control the product discharge.

Allowable Subject Matter

6. Claims 14 and 15 are allowed.

Response to Arguments

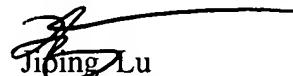
7. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 571 272 4878. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EHUD GARTENBERG can be reached on 571 272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jiping Lu
Primary Examiner
Art Unit 3749

J. L.